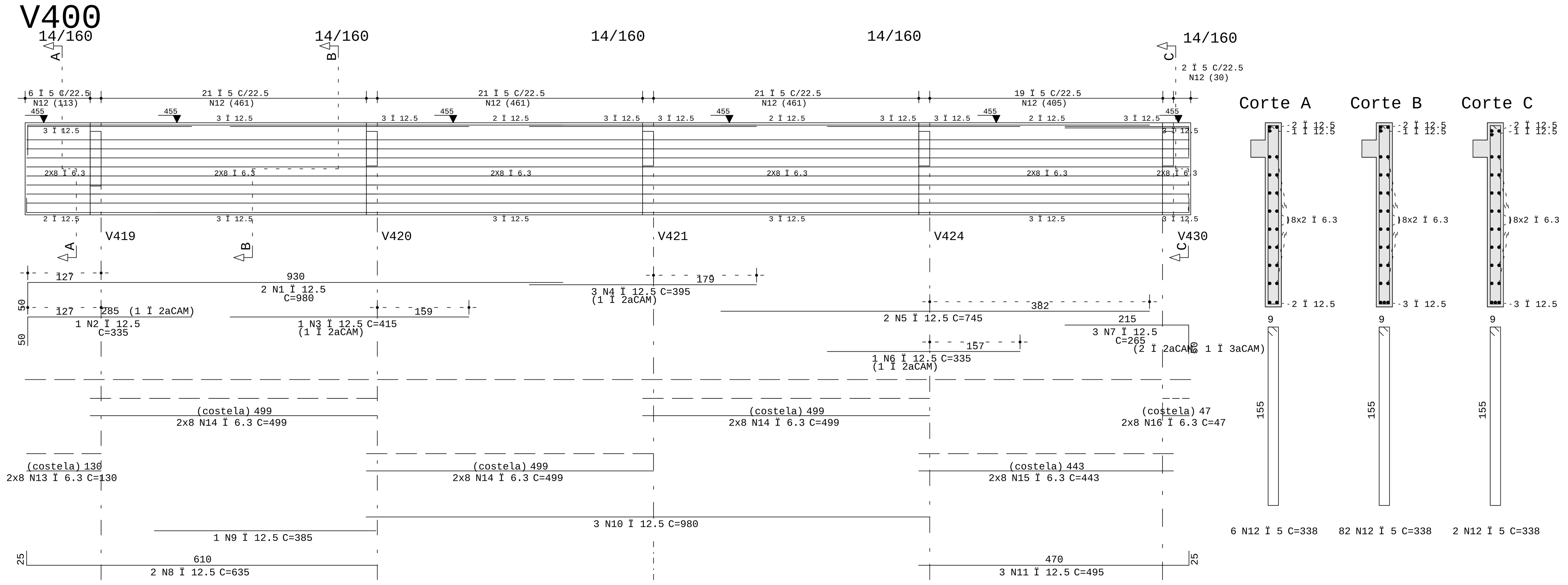
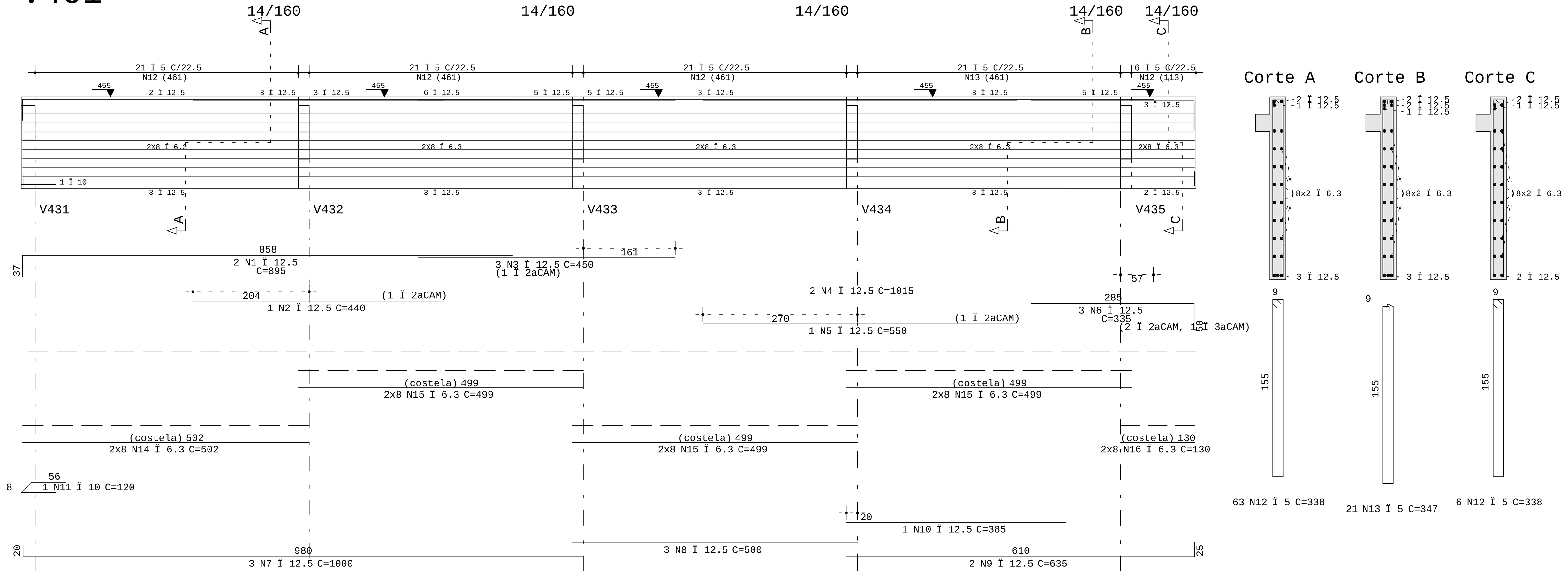
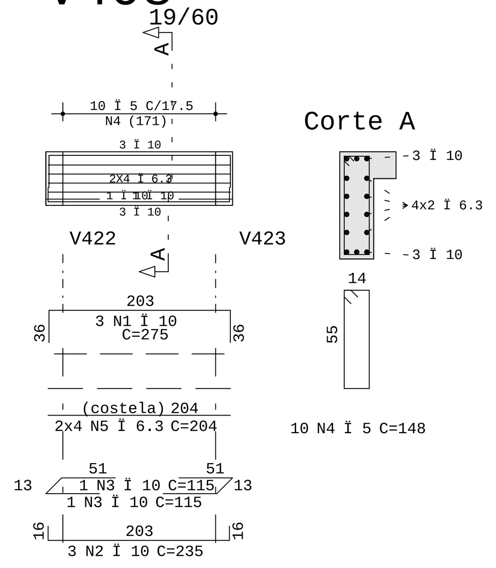
V400



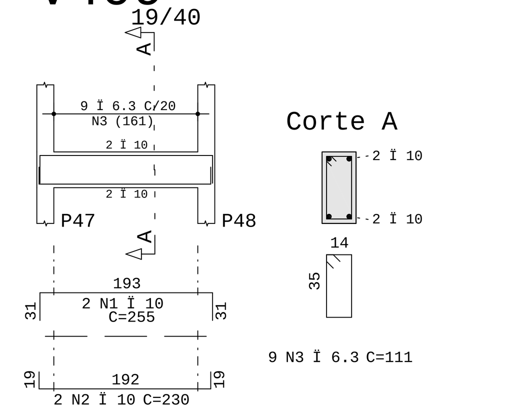
V401



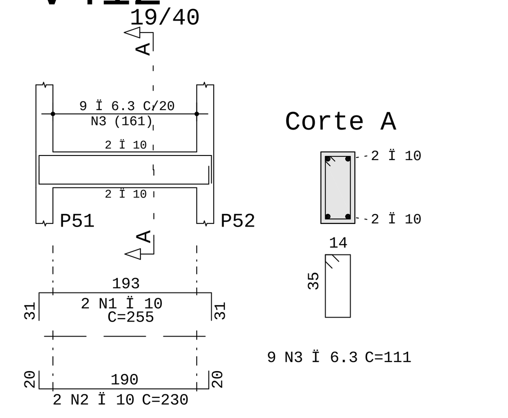
V408



V409



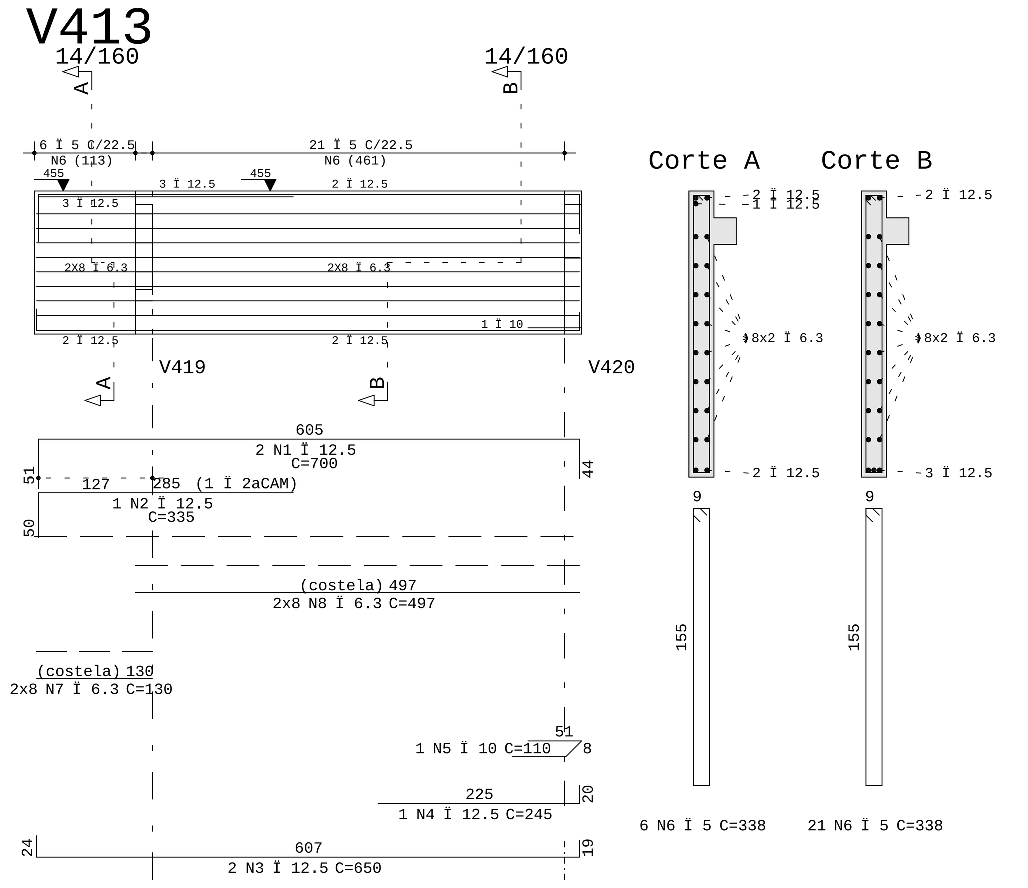
V412



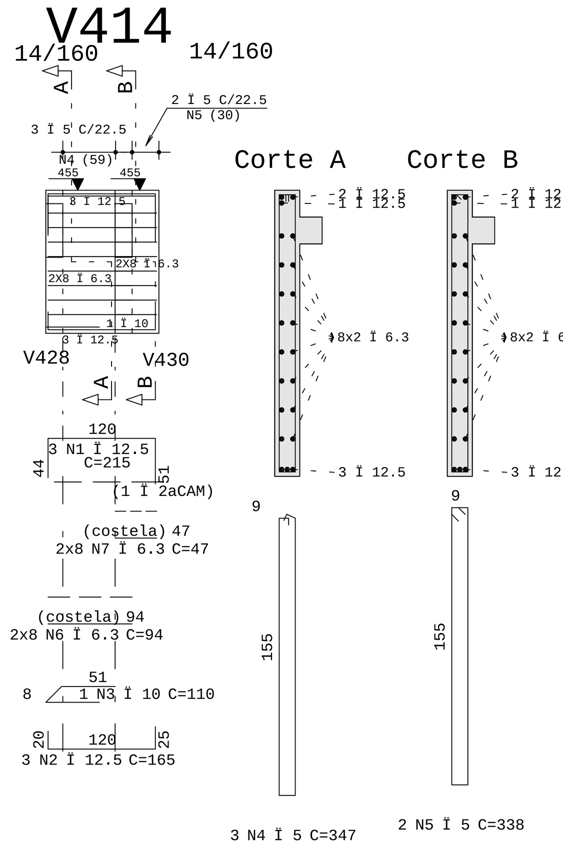
AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	TOTAL (cm)
V400					
50A	1	12.5	2	980	1960
50A	2	12.5	1	335	335
50A	3	12.5	1	415	415
50A	4	12.5	3	395	1185
50A	5	12.5	2	745	1490
50A	6	12.5	1	335	335
50A	7	12.5	3	265	795
50A	8	12.5	2	635	1270
50A	9	12.5	1	385	385
50A	10	12.5	3	980	2940
50A	11	12.5	3	495	1485
60B	12	5	90	338	30420
50A	13	6.3	16	130	2080
50A	14	6.3	48	499	23952
50A	15	6.3	16	443	7088
50A	16	6.3	16	47	752
V401					
50A	1	12.5	2	895	1790
50A	2	12.5	1	440	440
50A	3	12.5	3	450	1350
50A	4	12.5	2	1015	2030
50A	5	12.5	1	550	550
50A	6	12.5	3	335	1005
50A	7	12.5	3	1000	3000
50A	8	12.5	3	500	1500
50A	9	12.5	2	635	1270
50A	10	12.5	1	385	385
50A	11	10	1	120	120
60B	12	5	69	338	23322
60B	13	5	21	347	7287
50A	14	6.3	16	502	8032
50A	15	6.3	48	499	23952
50A	16	6.3	16	130	2080
V408					
50A	1	10	3	275	825
50A	2	10	3	235	705
50A	3	10	2	115	230
60B	4	5	10	148	1480
50A	5	6.3	8	204	1632
V409					
50A	1	10	2	255	510
50A	2	10	2	230	460
50A	3	6.3	9	111	999
V412					
50A	1	10	2	255	510
50A	2	10	2	230	460
50A	3	6.3	9	111	999
V413					
50A	1	12.5	2	700	1400
50A	2	12.5	1	335	335
50A	3	12.5	2	650	1300
50A	4	12.5	1	245	245
50A	5	10	1	110	110
60B	6	5	27	338	9126
50A	7	6.3	16	130	2080
50A	8	6.3	16	497	7952
V414					
50A	1	12.5	3	215	645
50A	2	12.5	3	165	495
50A	3	10	1	110	110
60B	4	5	3	347	1041
60B	5	5	2	338	676
50A	6	6.3	16	94	1504
50A	7	6.3	16	47	752
V415					
50A	1	12.5	2	935	1870
50A	2	12.5	1	455	455
50A	3	12.5	3	420	1260
50A	4	12.5	2	1015	2030
50A	5	12.5	1	565	565
50A	6	12.5	3	335	1005
50A	7	12.5	3	1000	3000
50A	8	12.5	3	500	1500
50A	9	12.5	2	635	1270
50A	10	12.5	1	385	385
50A	11	10	1	120	120
60B	12	5	69	338	23322
60B	13	5	21	347	7287
50A	14	6.3	16	502	8032
50A	15	6.3	48	499	23952
50A	16	6.3	16	130	2080
V416					
50A	1	10	3	290	870
50A	2	10	2	375	750
50A	3	10	2	190	380
50A	4	10	3	200	600
50A	5	12.5	4	510	2040
50A	6	12.5	3	185	555
50A	7	10	1	115	115
60B	8	5	35	148	5180
50A	9	6.3	8	496	3968
50A	10	6.3	8	168	1344
V417					
50A	1	10	3	525	1575
50A	2	12.5	2	520	1040
50A	3	12.5	1	450	450
60B	4	5	25	148	3700
50A	5	6.3	8	464	3712

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	1128	181
50A	6.3	1269	317
50A	10	85	53
50A	12.5	478	478
Peso Total		60B =	181 kg
Peso Total		50A =	848 kg

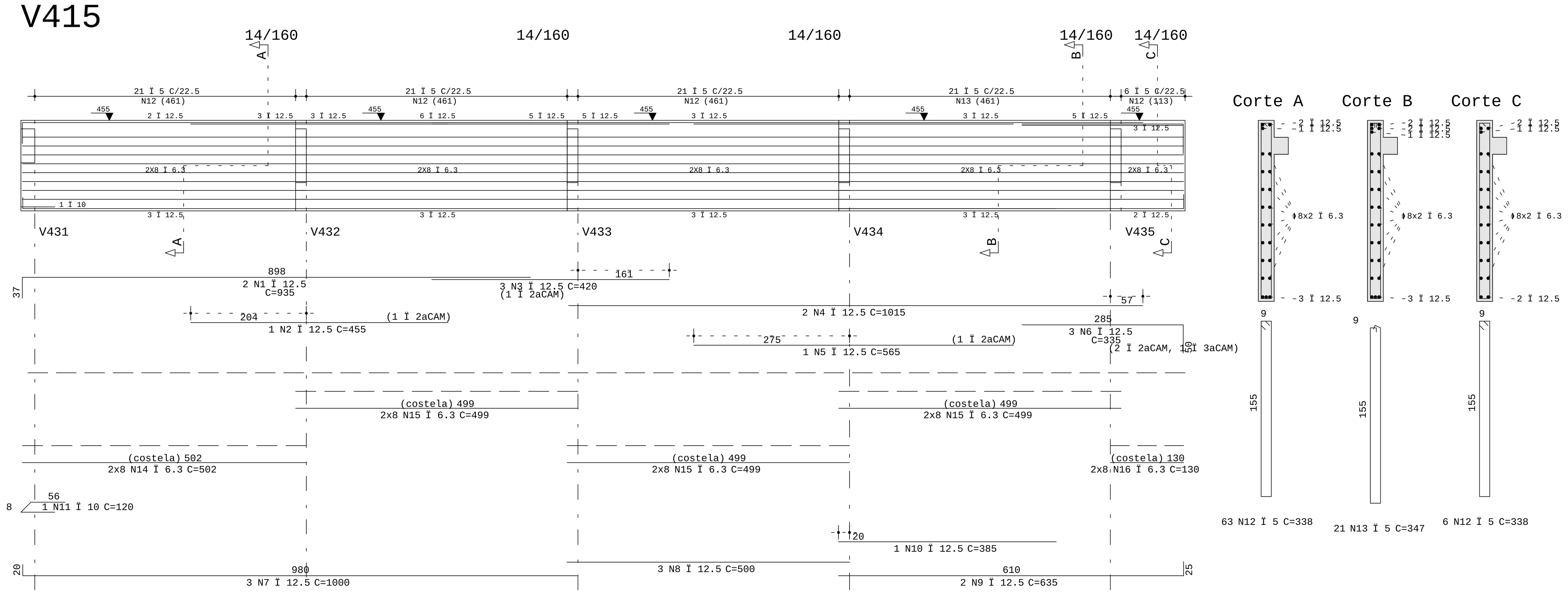
V413



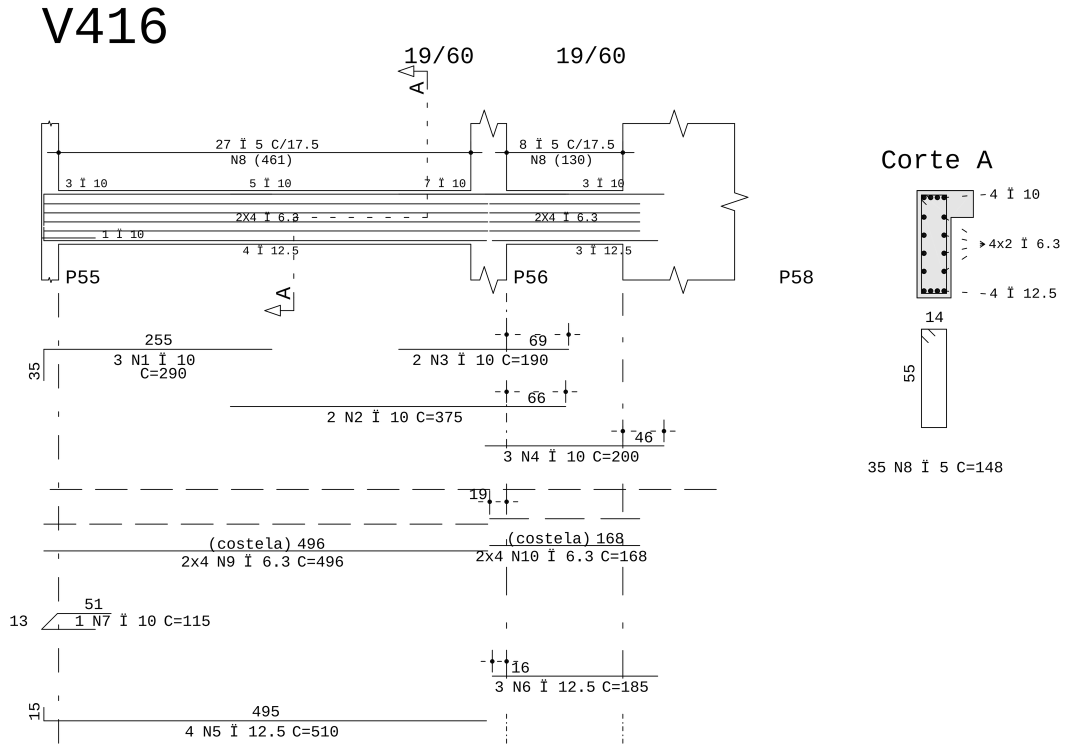
V414



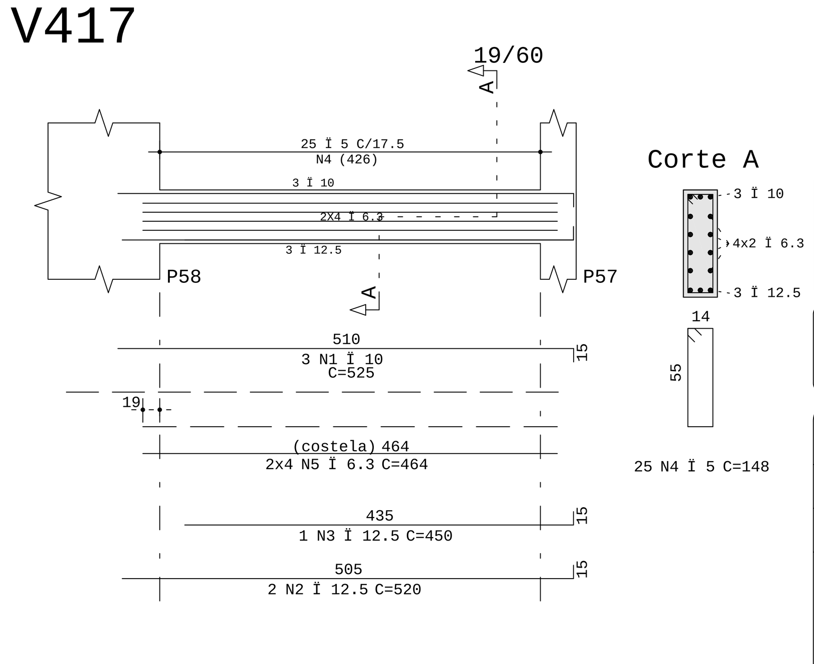
V415



V416



V417



REV.	MODIFICACAO	DESENHO	DATA
04			/ /
03			/ /
02			/ /
01	Revis«o Geral - Substitui-«o Relat·rio de Sondagem		17/07/14
00	EMISSëO INICIAL		/ /

RAL ENGENHARIA
Projetos Estruturais
R. Dr. Ilarino Juliano, 08 -°1Ù Andar - Sala 10
CEP 06038-323 - Jd. D'Abril - Osasco - SP
e-mail: ral_eng@ig.com.br
Tel.: (11) 3694-6726
Nextel : (11) 7746-8117
ID : 11*89976

CONCRETO fck = 30 Mpa
fc 28 = - NBI 78 - 8.3.1.2 - a
fc 28 = - NBI 78 - 8.3.1.2 - b
fc 28 = - NBI 78 - 8.3.1.2 - c

SOBRECARGA PREVISTA 300 kgf/m2

OBRA Nº 1199

CLIENTE: TRIBUNAL DE CONTAS DO ESTADO DE SëO PAULO

OBRA: Av Dr. Ariberto Pereira da Cunha, 1302 - Guaratinguet§

DES. Nº 220

TITULO: Pavimento Cobertura
Arma-«o de Vigas 1/4

V400 / V401 / V408 / V409 / V412
V413 / V414 / V415 / V416 / V417

REV. Nº 01

DATA 17/07/2014 | ESCALA 1:50 | DESENHO | VERIF. | COORD. | ENG º Roberto A.Lima

Formato A0

ROBERTO ANTONIO DE LIMA PL C:\TQS\Guaratinguets UR-14\Cobertura\VIGAS\220A01.PLT 29/08/2014 18:27:47